



Protect Your Processes, Production & Critical Equipment – Reduce Your Liability.

Minimize risk from hard water with new patent pending failsafe water softener technology from Industrial Water Solutions.

ZERO HARDNESS HIGH EFFICIENCY TWIN & TRIPLE TANK SOFTENER SYSTEMS

Our 'ZH' Zero Hardness Failsafe water softeners reduce chance of failure and hardness leakage by always having two softener tanks online in series and eliminating stagnant water in offline tanks and piping.

- Worker polisher tanks running in series eliminate hard water caused by one softener not functioning or failing to regenerate correctly.
- Piping and valving optimization minimizes dead legs and hardness leaching into the water.
- Lower hardness leakage & salt savings are achieved by running the softeners in a double pass worker polisher softener flow configuration.
- Hardness leakage and high efficiency are optimized with adjustable salt level settings.

STANDARD FEATURES

- Failsafe, high efficiency design
- 100% soft water uptime configuration
- Anti-fouling, high flow resin
- Distribution and controls to reduce hardness leakage
- Bi-directional flow with continuous soft water polishing
- Skid Mounted, pre-piped and pre-wired
- Parallel mode for peak flow rates
- Factory hydro-tested at 100 psig
- Systems are all NSF 61 rated

INSTRUMENTATION / CONTROLS

- Butterfly valves with air or electric actuators
- AB 1400 PLC with BMS communication
- 304 stainless steel piping and distribution
- Metered regeneration with timed override
- Inlet/Outlet pressure gauges & sample ports
- Adjustable brining settings from 4 – 15 lbs

NEW
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PATENT PENDING
TWIN & TRIPLE
TANK MODELS



OPERATING PARAMETERS

- Inlet pressure: 30 – 100 psig
- Electrical: 120 – 240 VAC, 50 - 60 Hz
- Temperature: 35 – 110 °F

OPTIONS

- Regeneration failure early detection system
- Low flow hardness elimination system
- Triple stage pressure transducer arrangement
- Premium online hardness monitor with 4-20 output
- High pressure and temperature systems
- ASME code and stamped resin tanks
- 304 and 316 Stainless steel tank construction
- Additional piping materials, including CPVC
- Fully integrated sanitization system
- Seismic zone rated tanks and systems
- Ultraviolet light and Cartridge filter system

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CATALOG NUMBER	EXCHANGE CAPACITY/(Grains) SALT DOSAGE/(Pounds) SALT USAGE/(Pounds) MAX. MIN.		FLOW RATES			PIPE SIZE		RESIN CU. FT.	TANK SIZES		SALT STORAGE LBS
			SERVICE		BACKWASH GPM	SERVICE IN.	DRAIN IN.		SOFTENER IN.	BRINE IN.	
			CONT. GPM	PEAK GPM							
ZH-150-1	150,000/	100,000/	21	64	10	1	1	5	20 x 54	24 x 50	700
1-1/4	75/	30/	28	86		1-1/4	1				
1-1/2	75/	30/	36	110		1-1/2	1				
2			46	138		2	1				
ZH-210-1-1/4	210,000/	140,000/	27	82	15	1-1/4	1	7	24 x 54	24 x 50	600
1-1/2	105/	42/	42	128		1-1/2	1				
2	105/	42/	53	160		2	1				
2-1/2			76	230		2-1/2	1				
ZH-300-1-1/2	300,000/	200,000/	45	136	20	1-1/2	1	10	30 x 54	24 x 60	600
2	150/	60/	61	184		2	1				
2-1/2	150/	60/	92	280		2-1/2	1				
3			109	330		3	1				
ZH-450-1-1/2	450,000/	300,000/	42	126	20	1-1/2	1	15	30 x 60	30 x 60	1000
2	225/	90/	54	164		2	1				
2-1/2	225/	90/	79	240		2-1/2	1				
3			92	280		3	1				
ZH-600-1-1/2	600,000/	400,000/	48	144	30	1-1/2	1-1/2	20	36 x 60	39 x 60	1900
2	300/	120/	73	220		2	1-1/2				
2-1/2	300/	120/	92	280		2-1/2	1-1/2				
3			116	350		3	1-1/2				
ZH-750-2	750,000	500,000/	59	180	30	2	1-1/2	25	36 x 72	39 x 60	1700
2-1/2	375/	150/	92	280		2-1/2	1-1/2				
3	375/	150/	106	320		3	1-1/2				
ZH-900-2	900,000	600,000/	69	210	45	2	2	30	42 x 60	42 x 60	1900
2-1/2	450/	180/	99	300		2-1/2	2				
3	375/	180/	124	376		3	2				
ZH-1050-2	1,050,000/	700,000/	63	190	45	2	2	35	42 x 72	50 x 60	2300
2-1/2	525/	210/	96	300		2-1/2	2				
3	525/	210/	124	346		3	2				
ZH-1200-2-1/2	1,200,000/	800,000/	106	320	60	2-1/2	2	40	48 x 60	52 x 60	2600
3	600/	240/	142	430		3	2				
4	600/	240/	205	620		4	2				
ZH-1500-2-1/2	1,500,000/	1,000,000/	109	330	80	2-1/2	2	50	54 x 60	66 x 46	3300
3	750/	300/	149	450		3	2				
4	750/	300/	267	620		4	2				
ZH-1950-2-1/2	1,950,000/	1,300,000/	111	336	100	2-1/2	2-1/2	65	60 x 60	60 x 66	4000
3	975/	390/	155	470		3	2-1/2				
4	975/	390/	294	890		4	2-1/2				
ZH-2400-3	2,400,000/	1,600,000/	162	490	120	3	3	80	66 x 72	66 x 72	5800
4	1,200/	480/	317	960		4	3				
6	1,200/	480/	429	1300		6	3				
ZH-3000-3	3,000,000/	2,000,000/	168	510	140	3	3	100	72 x 72	82 x 60	7300
4	1,500/	600/	330	1000		4	3				
6	1,500/	600/	462	1400		6	3				
ZH-3600-4	3,600,000	2,400,000/	343	1040	165	4	3	120	78 x 72	82 x 60	6000
6	1,800/	720/	495	1500		6	3				
8	1,800/	720/	627	1900		8	3				
ZH-4200-4	4,200,000	2,800,000/	356	1080	190	4	3	140	84 x 72	90 x 60	7500
6	2,100/	840/	515	1560		6	3				
8	2,100/	840/	660	2000		8	3				
ZH-4800-4	4,800,000/	3,200,000/	396	1200	220	4	4	160	90 x 72	90 x 60	6500
6	2,400/	960/	528	1600		6	4				
8	2,400/	960/	700	2120		8	4				
ZH-5400-4	5,400,000/	3,600,000/	446	1350	250	4	4	180	96 x 72	96 x 60	7700
6	2,700/	1,080/	581	1760		6	4				
8	2,700/	1,080/	769	2300		8	4				

Non-chemical and chemical water treatment systems can be packaged with the ZH Water Softener System to optimize water purity and chemistry for your organization. Consulting for current and planned water treatment systems and services are also available.

NON-CHEMICAL AUXILIARY WATER TREATMENT SYSTEMS

- RO & Nanofiltration Systems
- IX/EDI Deionization Systems
- Backwashable Filter Systems
- Ultrafilter (UF) Systems
- Microfiltration Systems

CHEMICAL AUXILIARY WATER TREATMENT SYSTEMS

- Mixed Oxidant Generation Systems
- Chlorine Dioxide Generation Systems
- Chlorine Injection Systems
- Monochloramine Injection Systems
- Advanced Oxidation Process Systems